

ABSTRACT OF THE DISCLOSURE

A system and method for treating the surface of an optical lens is provided. A predetermined pressure and a plasma gas are maintained in a coating chamber.

5 A plasma cloud of gas is established between electrodes in the chamber. An entry chamber is upstream from the coating chamber, and an exit chamber is disposed downstream from the chamber. A lens is moved into the entry chamber, and at least a portion
10 of the entry chamber adjacent to the coating chamber is brought to the predetermined pressure. Process gas is introduced into this area. The entry chamber is then brought into communication with the coating chamber, and the lens is moved into the coating
15 chamber and through the cloud. Process gas is introduced into at least a portion of the exit chamber adjacent the coating chamber, and this portion is brought to the predetermined pressure. The lens is then moved from the coating chamber to the exit
20 chamber.